AMC763

Intel Xeon D-15xx Processor, AMC



Key Features

- Processor AMC Intel® 5th Generation Xeon D-1539, D-1548 or D-1577 (Broadwell) SoC
- Dual PCle Gen3 x4 or single PCle x8 on Ports 4-11 (AMC.1)
- GbE to Ports 0 and 1 (AMC.2) and SATA to Ports 2 and 3 (AMC.3)
- Dual 10GBASE-T to the front panel
- Single module, mid-size (option for full-size) per AMC.0
- 16 GB of DDR4 memory with ECC
- 32 GB of Flash memory
- CPLD (watchdog timer, support for redundant Flash) and BIOS Flash
- TPM (optional)

Benefits

- Efficient SoC design with integrated PCH technology
- Lower power consumption and cost-effective for high performance
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company





AMC763

The AMC763 is a Processor AMC in a single module, mid-size, based on the Intel® 5th generation Xeon 4-core, 8-core or 16-core Processors (Broadwell). The efficient SoC design has low power consumption and integrated PCH technology. The module follows the AMC.1, AMC.2 and the AMC.3 specifications.

The module provides dual PCIe Gen3 x4 or single x8 on Ports 4-11 per AMC.1, GbE on Ports 0 and 1 per AMC.2, and SATA on Ports 2 and 3 per AMC.3. It also provides dual 100 Mbit/1GbE/10GbE to the front panel (the module can autonegotiate down to 100 Mbit Ethernet but not 10 Mbit).

The AMC763 is fitted with a Complex Programmable Logic Device (CPLD) and BIOS Flash. The BIOS allows booting from onboard Flash, offboard SATA, PXE boot and USB. The CPLD includes watchdog timer, supporting redundant Flash for booting. The module also provides 16 GB of DDR4 memory with ECC and has 32 GB of Flash for the OS.

Linux OS is standard on the AMC763, consult VadaTech for other options.



Figure 1: AMC763

Block Diagram

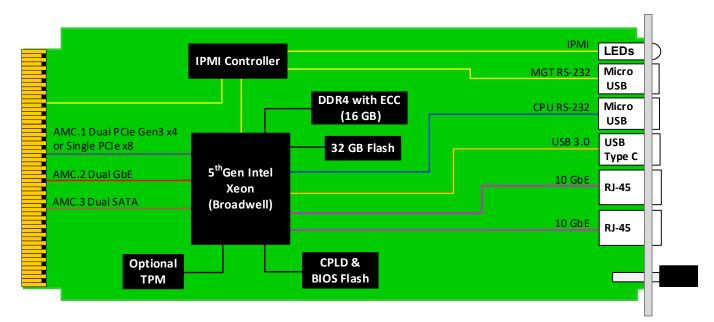


Figure 2: AMC763 Functional Block Diagram

Front Panel



Figure 3: AMC763 Front Panel

Specifications

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Architecture		
Physical	Dimensions	Width: 2.89" (73.5 mm)
		Depth: 7.11" (180.6 mm)
Туре	AMC Processor	Intel® 5th Generation Xeon D-1539, D-1548 or D-1577
Standards		
AMC	Туре	AMC.0, AMC.1, AMC.2 and/or AMC.3
Module Management	IPMI	IPMI v2.0
PCle	Lanes	Single x8 or dual x4 as PCle Gen3
Configuration		
Power	AMC763	~55W
Environmental	Temperature	See Ordering Options and Environmental Spec Sheet
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s2 (1G), 5-500 Hz
	Shock	Operating 325 G/2 ms, 160 G/1 ms
	Relative Humidity	5 to 95% non-condensing
Front Panel	Interface Connectors	2x RJ-45 for 10GbE
		Type C USB for USB 3.0
		Micro USB for processor RS-232
		Micro USB for management RS-232
	LEDs	IPMI, activity and user defined
	Mechanical	Hot-swap ejector handle
Software Support	Operating System	Linux (consult VadaTech for other options)
Other		
MTBF	MIL Hand book 217-F@ TBD hrs	
Certifications	Designed to meet FCC, CE and UL certifications, where applicable	
Standards	VadaTech is certified to both the ISO9001:2015 and AS9100D standards	
Warranty	Two (2) years, see VadaTech Terms and Conditions	
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INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

AMC763 - 00C-DE0-00J

	D = Processor Type	
	0 = Reserved 1 = 8C, 2.0 GHz, 12 MB LLC, Xeon D-1548 2 = 16C, 1.3 GHz, 24 MB LLC, Xeon D-1577 3 = 4C, 1.6GHz, 6 MB LLC, Xeon D-1513N 4 = Reserved 5 = Reserved 6 = 8C, 1.6 GHz, 12 MB LLC, Xeon D-1539 7 = 4C, 2.2 GHz, 6MB LLC, Xeon D-1527	
	E = TPM	
	0 = No TPM 1 = TPM	
C = Front Panel Size		J = Temperature Range and Coating*
1 = Reserved 2 = Mid-size 3 = Full-size 4 = Reserved 5 = Mid-size, MTCA.1/.4 6 = Full-size, MTCA.1/.4 7 = Extended-size (8 HP), MTCA.1/.4		0 = Commercial (-5° to +55°C), No coating 1 = Commercial (-5° to +55°C), Humiseal 1A33 Polyurethane 2 = Commercial (-5° to +55°C), Humiseal 1B31 Acrylic 3 = Industrial (-20° to +70°C), No coating 4 = Industrial (-20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (-20° to +70°C), Humiseal 1B31 Acrylic 6 = Reserved 7 = Reserved

Related Products





- Unified 1 GHz quad-core CPU for MCMC, Shelf Manager, Clocking, and Fabric management
- Automatic fail-over with redundant UTC004s
- Full Layer 2 or 3 managed Ethernet switches

UTC020



- Single module, full-size per AMC.0
- Dual -36V DC to -75V DC input, 936W (available in 468W)
- Hot swappable with support for power module redundancy

VT853



- MicroTCA 1U 19" rack mount chassis platform
- Six mid-size AMC slots per 1U Carrier or two double module mid-size with two mid-size AMC slots
- Front to back cooling

Contact

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